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(54) EXHAUST EMISSION CONTROL DEVICE

(57) Abstract:

PROBLEM TO BE SOLVED: To maintain a purifying rate in a low temperature area high likewise as in a conventional way and effectively utilize HC for the reduction of NOx even if a rich spike has been input shallow.

SOLUTION: In an exhaust emission control device comprising a three-way catalyst 2 and an NOx storage reduction type catalyst 3 arranged upstream and downstream respectively, in the case where exhaust emission under the condition that a lean atmosphere whose mole ratio of oxidized components to the reduced components in the

exhaust emission is over 14.6 and a rich atmosphere whose mole ratio of the oxidized components are alternately repeated flows into the catalyst 2, the time while the catalyst 2 holds is limited to one second or less. In this case, this time is from the time point when the atmosphere of the exhaust emission becomes stoichiometric atmosphere after passing through the catalyst 2 becomes stoichiometric atmosphere from a rich atmosphere until it becomes the lean atmosphere of 50% of the maximum lean atmosphere. The oxidation of HC at the time of rich spike by the catalyst 2 can be controlled, leading to the effective utilization of the reduction of NOx.

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